

PW-YCM-1200

Yarn Crimp & Length Tester

A dedicated yarn testing platform for measuring straightened yarn length and evaluating yarn crimp in woven fabrics, with a maximum jaw separation of 1,200 mm.



Product visualization; screen content illustrative.

Maximum jaw separation	1,200 mm
Housing width	1,500 mm
Primary measurement	Straightened yarn length
Evaluation	Yarn crimp relative to fabric gauge length
Specimen handling	Two jaws with transparent upper grips
Straightening tension	Selected by yarn type and test method

Working principle

Mark a known gauge length on the fabric and carefully remove the yarn. Secure it between the jaws and straighten it under the tension specified for the yarn and method. Compare straightened yarn length L with the original fabric gauge length L_0 :

$$\text{crimp (\%)} = 100 \times (L - L_0) / L_0$$

Method references: ISO 7211-3:1984, ASTM D3883-04(2020)

ISO 7211-3 and ASTM D3883 address yarn crimp in woven fabrics. BS 5441 provides a separate context for knitted-fabric yarn-length procedures. Linear-density determination under ISO 7211-5 also requires a suitable balance.